

Andrew Andrew D Burnett

List of Publications by Year in descending order

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41
papers

1,059
citations

567281

15
h-index

580821

25
g-index

44
all docs

44
docs citations

44
times ranked

1208
citing authors

#	ARTICLE	IF	CITATIONS
1	Terahertz spectroscopy of explosives and drugs. <i>Materials Today</i> , 2008, 11, 18-26.	14.2	447
2	Broadband terahertz time-domain spectroscopy of drugs-of-abuse and the use of principal component analysis. <i>Analyst, The</i> , 2009, 134, 1658.	3.5	70
3	Absorption-sensitive diffuse reflection imaging of concealed powders using a terahertz quantum cascade laser. <i>Optics Express</i> , 2008, 16, 5997.	3.4	56
4	Excitation-density-dependent generation of broadband terahertz radiation in an asymmetrically excited photoconductive antenna. <i>Optics Letters</i> , 2007, 32, 2297.	3.3	52
5	Dual-frequency imaging using an electrically tunable terahertz quantum cascade laser. <i>Optics Express</i> , 2009, 17, 20631.	3.4	42
6	Terahertz Dielectric Property Characterization of Photopolymers for Additive Manufacturing. <i>IEEE Access</i> , 2019, 7, 12339-12347.	4.2	37
7	Comparison of near infrared laser excitation wavelengths and its influence on the interrogation of seized drugs of abuse by Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2009, 40, 1974-1983.	2.5	32
8	PDielec: The calculation of infrared and terahertz absorption for powdered crystals. <i>Journal of Computational Chemistry</i> , 2016, 37, 1491-1504.	3.3	31
9	Calculation and Measurement of Terahertz Active Normal Modes in Crystalline PETN. <i>ChemPhysChem</i> , 2010, 11, 368-378.	2.1	30
10	Laser Feedback Interferometry as a Tool for Analysis of Granular Materials at Terahertz Frequencies: Towards Imaging and Identification of Plastic Explosives. <i>Sensors</i> , 2016, 16, 352.	3.8	27
11	Spectroscopy of polycrystalline materials using thinned-substrate planar Goubau line at cryogenic temperatures. <i>Lab on A Chip</i> , 2013, 13, 4065.	6.0	25
12	Integrated On-Chip THz Sensors for Fluidic Systems Fabricated Using Flexible Polyimide Films. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2016, 6, 619-624.	3.1	22
13	On-Chip Terahertz-Frequency Measurements of Liquids. <i>Analytical Chemistry</i> , 2017, 89, 7981-7987.	6.5	22
14	Raman spectroscopic analysis of human remains from a seventh century cist burial on Anglesey, UK. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 387, 821-828.	3.7	21
15	Free-space terahertz radiation from a LT-GaAs-on-quartz large-area photoconductive emitter. <i>Optics Express</i> , 2016, 24, 26986.	3.4	21
16	Applying broadband terahertz time-domain spectroscopy to the analysis of crystalline proteins: a dehydration study. <i>Journal of Applied Crystallography</i> , 2011, 44, 129-133.	4.5	15
17	Effect of Molecular Size and Particle Shape on the Terahertz Absorption of a Homologous Series of Tetraalkylammonium Salts. <i>Analytical Chemistry</i> , 2013, 85, 7926-7934.	6.5	14
18	Exploring the Reliability of DFT Calculations of the Infrared and Terahertz Spectra of Sodium Peroxodisulfate. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2020, 41, 382-413.	2.2	14

#	ARTICLE	IF	CITATIONS
19	Wideband dielectric properties of silicon and glass substrates for terahertz integrated circuits and microsystems. <i>Materials Research Express</i> , 2021, 8, 056201.	1.6	14
20	Coherent terahertz microscopy of modal field distributions in micro-resonators. <i>APL Photonics</i> , 2021, 6, .	5.7	14
21	Analysis of drugs-of-abuse and explosives using terahertz time-domain and Raman spectroscopy. , 2006, , .		10
22	Complementary spectroscopic studies of materials of security interest. , 2006, 6402, 74.		8
23	All-Electronic Phase-Resolved THz Microscopy Using the Self-Mixing Effect in a Semiconductor Laser. <i>ACS Photonics</i> , 2021, 8, 1001-1006.	6.6	7
24	The Development of a Semtex-H Simulant for Terahertz Spectroscopy. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2017, 38, 325-338.	2.2	6
25	Diffuse-Reflectance Spectroscopy Using a Frequency-Switchable Terahertz Quantum Cascade Laser. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2016, 6, 341-347.	3.1	4
26	Probing temperature- and solvent-dependent protein dynamics using terahertz time-domain spectroscopy. <i>Journal of Applied Crystallography</i> , 2014, 47, 146-153.	4.5	4
27	Photoconductive Arrays for High-Field Terahertz Generation. , 2019, , .		2
28	Broadband terahertz time-domain spectroscopy of drugs-of-abuse mixtures and ‘street‘ samples. , 2008, , .		1
29	Dual-frequency imaging using an electrically tunable terahertz quantum cascade laser. , 2009, , .		1
30	Terahertz time-domain spectroscopy of lysozyme and mouse urinary protein single crystals. , 2013, , .		1
31	Development of Advanced Terahertz Optics Using Liquid Crystals. , 2021, , .		1
32	Terahertz spectral measurements of a homologous organic series. , 2010, , .		0
33	Terahertz time-domain spectroscopy of protein single crystals. , 2010, , .		0
34	Calculation of terahertz active normal modes in organic crystals. , 2010, , .		0
35	Detection of terahertz frequency radiation via the photothermoelastic response of zincblende crystals. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2013, 30, 3151.	2.1	0
36	Optimization and application of on-chip terahertz Goubau lines. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
37	Spectroscopic analysis of powders through diffuse-reflectance imaging using a frequency-switchable terahertz quantum cascade laser. , 2013, , .		0
38	Understanding the influence of morphology on the terahertz spectra of a powdered ionic crystalline system. , 2013, , .		0
39	Investigation into free-space terahertz radiation from a LT-GaAs-on-quartz photoconductive emitter. , 2017, , .		0
40	Calculating the Complex Permittivity of Powdered Crystalline Materials. , 2019, , .		0
41	Understanding the Effect of Dispersion Corrections on the Calculated Spectra of α -Lactose Monohydrate. , 2020, , .		0